

Minutes of Afghanistan Energy Study Committee Meeting

MEETING NAME	Afghanistan Energy Study - Fifth Committee Meeting
DATE OF MEETING	16 th January 2018
TIME OF MEETING	9:30 am – 1:00 pm
LOCATION	World Bank Office, Kabul

Agenda topics

WELCOME REMARKS

The meeting started with welcoming remarks by Eng. Mohammad Gul Khulmi (Deputy Minister for Energy), who is the current chair of the Afghanistan Energy Study (AES) Committee. Following this, Mrs. Fanny Missfeldt-Ringius (Lead Energy Specialist for Afghanistan) provided a brief background to the study, and explained the status of the 5 components of the AES. She noted that an additional component was being added to the study, which was to further the analysis of renewable energy. Consequently, the overall study break-down now looks as follows:

- Component 1: Transactions Advisory and Knowledge Sharing
- Component 2: Financial, Economic and Community modality assessment
- Component 3: Household and Enterprise Energy Diaries
- Component 4: Development of a Least-Cost Electrification Plan
- Component 5: Institutional Assessment and Development
- Component 6: Afghanistan Renewable Study

One of the goals of this study is to develop a project prospectus for on & off grid electrification for Afghanistan.

PRESENTATION ON “AFGHANISTAN GEOSPATIAL ANALYSIS: MULTI-CRITERIA ANALYSIS FOR RENEWABLE ENERGY MAPPING AND VALUATION”

Under the heading of the new component 6 of the AES, Mr. Pasquale Franzese (Consultant with the World Bank) and Mr. Gunjan Gautam (Operations Officer) presented the interim results of the “Afghanistan Geospatial Analysis – Multi Criteria Analysis for Renewable Energy Mapping and Valuation” to the Committee. The purpose of this assessment is to identify suitable areas for development of on-grid solar and wind power plants. The assessment is carried out using the “Multi-criteria analysis for Planning Renewable Energy” (MapRE) tool developed by Lawrence Berkeley National Laboratory. The model overlays different criteria used in the identification for suitable sites that range from geo-physical criteria (e.g. earthquake zone) to economic criteria (e.g. distance to the electricity grid). Once suitable areas are identified, the electricity generation potential for each project opportunity area is quantified in terms of resources quality, capacity factor, and levelized cost of electricity. Ahead of the AES Committee meeting a working group constituted of Afghan experts had been helping improve the accuracy of the model. The working group was constituted of representatives from MEW, ARAZI, DABS, MAIL, and CRIDA. Further working group meetings are planned to be organized by Mr. Gautam and Mr. Franzese to help finalize the assessment and to train experts in the model during the course of the year 2018. or these working groups participants from MEW, ARAZI, DABS, MAIL, and CRIDA were invited.

COMMENTS/SUGGESTIONS

The Committee had the following comments and suggestions:

- Mohammad Gul Khulmi suggested to introduce a team who will permanently host this model, possibly at MEW. This would require further discussions in terms of how this could be practically done, and could be discussed further during the next committee meeting.
- Considering levelized cost of generation of wind and solar plants appear to be higher as per the preliminary results of the model - especially compared to international rates - Prof. Qayoumi (Chief Adviser on Infrastructure to President) suggested to update these costs based on international market prices and clearly identifying the security premium that goes into the calculations. Prof. Qayoumi also suggested to focus on the East and South of the country for the identification of on-grid sites as the other parts of the country are already well endowed with transmission interconnections (allowing electricity imports), and hydropower.
- Mr. Amanullah Ghalib (DABS CEO) appreciated the idea of international experts working with Afghan team on this initiative and further explained that if any support from top management is required the would be happy to provide. He also suggested to final 6 or 7 location for the wind and solar and then present it to ARAZI and seek their opinion.
- Mr. Ahmad Rasuli from MRRD stated that we have witnessed two studies done by World bank the first one was done by KTH university which was related to off grid solar resources and the second which is done by Pasquale and Gunjan. These two studies should complement each other and be reflected in national reports and policies like national infrastructure plan and national priority program.

INTRODUCTION OF LIGHTING AFGHANISTAN BY IFC

Mr. Marco Indelicato (Operations Officer with IFC) provide a brief summary of the Lighting Afghanistan Project. This project aims to to replace the low quality solar products with high quality products with affordable prices to the consumer.

Summary of Lighting Afghanistan Activities,

1. B2B connections/trade events: partnerships to reach the last mile
2. Consumer surveys: understanding consumer needs, requirements, aspirations and WTP
3. Training and capacity building for partners along the supply chain
4. Activations: consumer awareness/education campaigns

UPDATE ON HOUSEHOLD AND ENTERPRISE ENERGY DIARIES

Emma Allen (Project officer with Samuel Hall) provided a brief update on the household and enterprise energy diaries. The activity comprise of a household and enterprise survey, whose main objective would be to assess energy consumption patterns of various fuels by rural and peri-urban household, community institutions and small sale enterprises and the financial implications and opportunities for scaling up energy services provision to the same. The survey tools to be used for collecting information from households, community institutions and small enterprises will be different – while traditional surveys will be used to gather information on community institutions and enterprises as well as demographic and socio-economic characteristics of households, a diary method will be used to gather energy consumption and expenditure related information from household.

NEXT STEPS

- Next Afghanistan Committee Meeting to be scheduled for 10 April 2018;
- Micro/mini hydro learning tour to Nepal October 2018;
- Visit to India to Learn About Roof-top Solar Program – to be scheduled;

NEXT MEETING	10/April/2018
LOCATION	World Bank Office, Kabul
SPECIAL NOTES	The list of participants and presentations are attached to these minutes

List of Participants

[please add the participants in blocks of organizations they come from]